

Notice of Allowability

Application No.

10/057,393

Examiner

Warner Wong

Applicant(s)

HOANG, BRIAN

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/18/06.
2. ☒ The allowed claim(s) is/are 1 and 10-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Erik Heter (reg. No. 50.652) on September 29, 2006 with a follow-up email on October 10, 2006.

The application has been amended as follows:

- Claims 2-9 are cancelled.
- Claims 1 and 10 are amended (see below):

1. (Currently Amended) A digital system that comprises:

a plurality of units operating at a first clock rate, each unit configured to independently process a sequence of data items; and

a domain crossover element configured to receive a stream of data items at a second clock rate different from the first clock rate and configured to distribute separate sequences of data items through separate ports to the plurality of units, wherein the domain crossover unit includes a plurality of registers including a first subset and a second subset distinct from the first, wherein the domain crossover unit is configured to select one of the plurality of registers at the second clock rate and to store each data item in a selected register as the data items are received, and wherein the

domain crossover unit is further configured to sequentially select one of the first subset of the plurality of registers at the first clock rate and one of the second plurality of registers at the first clock rate and concurrently read data items from the selected ones of the first and second subsets at the first clock rate.

10. (Currently Amended) The system of claim 1, wherein the domain crossover element comprises:

a counter/decoder ~~that receives~~ configured to receive an input clock operating at the second clock rate and responsively ~~asserts~~ assert sequential ones of a plurality of output signals, wherein registers of the first and second subsets is coupled to receive a corresponding one of the plurality of output signals, wherein each of the plurality of registers;

~~a plurality of storage location registers, each coupled to receive corresponding one of the plurality of output signals from the counter/decoder, and each coupled to receive a stream of input data items, wherein each of the storage location registers is configured to store an input data item when the corresponding one of the plurality of output signals is asserted;~~

a plurality of multiplexers each configured to provide a sequence of data items to one of the separate ports, wherein each of the multiplexers is coupled to ~~storage location~~ one of the plurality of registers associated with said one of the separate ports; and

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an output counter that receives an output clock operating at the first clock rate, wherein the output counter is coupled to one or more of the multiplexers and configured to sequentially select storage locations an associated one of the plurality of registers for the one or more multiplexers to access to provide said sequences of data items.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Warner Wong whose telephone number is 571-272-8197. The examiner can normally be reached on 6:30AM - 3:00PM, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Warner Wong
Examiner
Art Unit 2616

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RICKY Q. NGO
SUPERVISORY PATENT EXAMINER